

Enzyme	Principal Lesion Class Recognized	Lesions Recognized
<i>E. coli</i> formamidopyrimidine-DNA glycosylase (Fpg Protein)	Oxidized Purines	FaPyAdenine, FaPyGuanine, C8-oxoGuanine, some abasic sites, C8-oxoAdenine and to a lesser extent, other modified purines (FaPy = 2,6-diamino-4-hydroxy-5-N-methylformamido-pyrimidine).
<i>E. coli</i> Nth Protein (Endonuclease III)	Oxidized pyrimidines	Thymine residues damaged by ring saturation, fragmentation, or ring contraction, including 5,6-dihydrothymine, thymine glycol, urea, 5-hydroxy-5-methyl hydantoin, DNA damaged at guanine sites, and some abasic sites.
<i>E. coli</i> Nfo Protein (Endonuclease IV)	Abasic sites	Several types of abasic sites, including oxidized abasic sites, abasic sites modified with alkoxyamines, and DNA containing urea residues.

FIG. 1

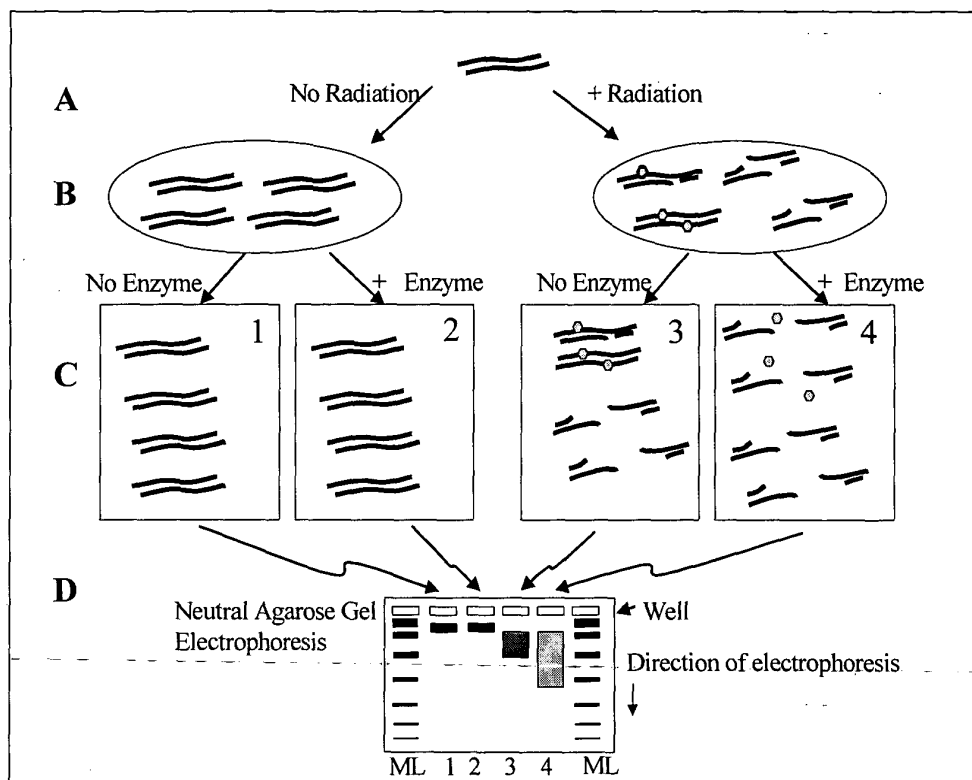


FIG. 2

100120-033255

3/5

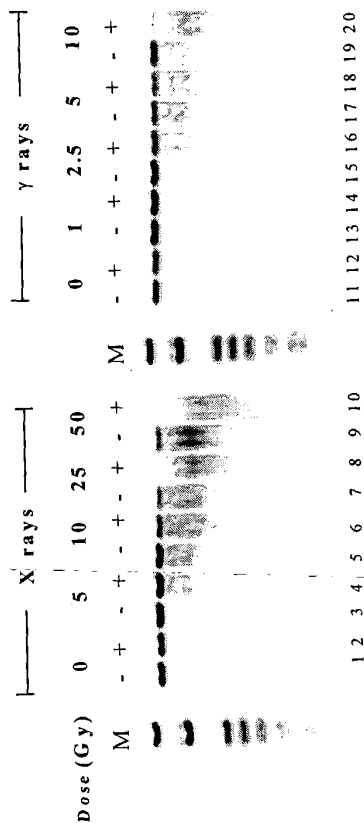


FIG. 3

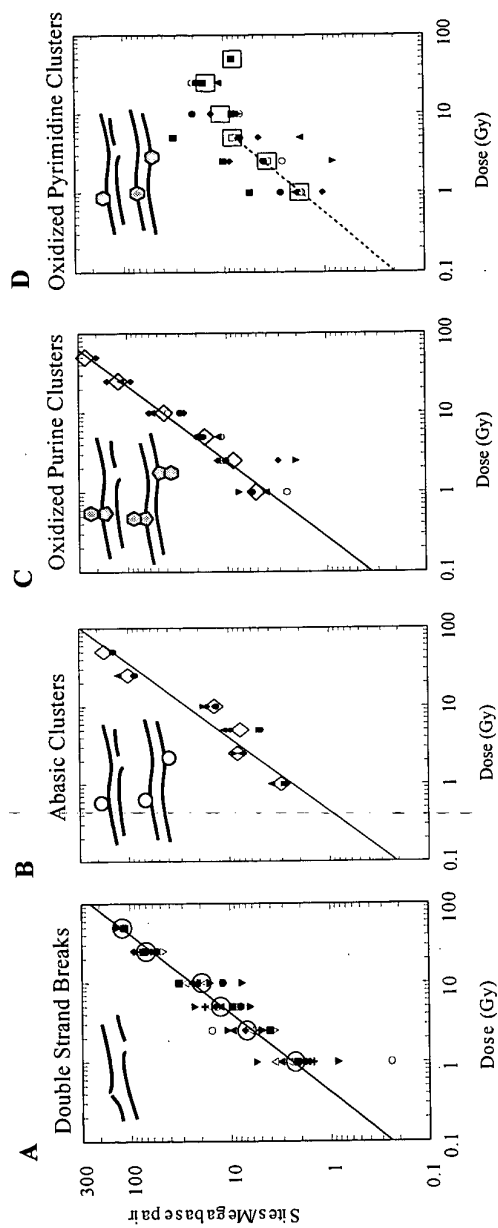


FIG. 4

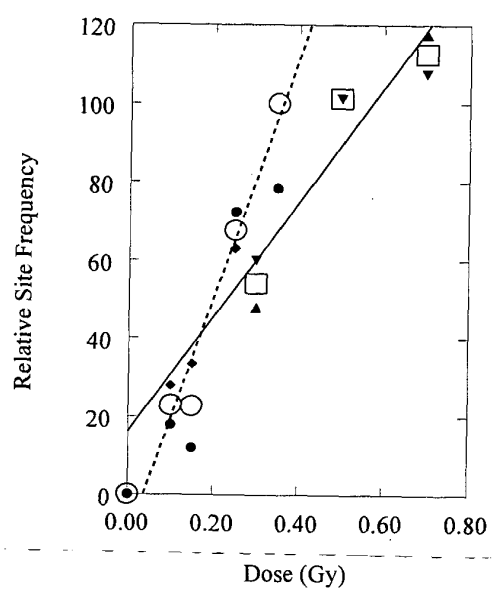


FIG. 5